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Summary

TRAINING OF EUS-HGS AND PFC DRAINAGE PROCEDURE WITH NEWLY DEVELOPED MODEL

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Newly designed EUS-HGS and pseudocyst drainage training models were tested with 26 trainees and demonstrated utility for procedural learning with significant improvement in completion times between first and second attempts.

KEY POINTS

- All 11 trainees (100%) completed the EUS-HGS procedure on both first and second attempts, with mean procedure times improving from 712 seconds to 490 seconds ($p<0.001$).
- For pseudocyst drainage, 11 of 15 trainees (73%) completed the procedure on both first and second attempts, with mean times improving from 780 seconds to 594 seconds ($p<0.001$).
- The models used special plastic material for EUS-HGS and an 8cm non-rupture balloon filled with lubricant for pseudocyst simulation, placed in a water tank with UCT-260 scope, 19G needles, and 7Fr plastic stents.
- Trainees reported the models had lower resistance for puncture and stenting compared to clinical cases, though the models did provide resistance through simulated gastric wall, pseudocyst wall, and hepatic parenchyma.
- The models may be most beneficial for beginners in therapeutic EUS to understand procedural steps and for skill development through repeated practice.

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